STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/562,134
Source: IFW
Date Processed by STIC: 1/10/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/562,134

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	~~Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.~~ Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

IFWP

RAW SEQUENCE LISTING DATE: 01/10/2006
PATENT APPLICATION: **US/10/562,134** TIME: 09:40:07

Input Set : **A:\PCTEP04007090.txt**
Output Set: **N:\CRF4\01102006\J562134.raw**

```
      3 <110> APPLICANT: TOOKE, NIGEL
      4       EKSTROM, BJORN
      6 <120> TITLE OF INVENTION: NEW METHOD
      8 <130> FILE REFERENCE: 71870-82448
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/562,134
C--> 11 <141> CURRENT FILING DATE: 2005-12-23
     13 <150> PRIOR APPLICATION NUMBER: SE 0301951-0
     14 <151> PRIOR FILING DATE: 2003-06-30
     16 <150> PRIOR APPLICATION NUMBER: US 60/481,043
     17 <151> PRIOR FILING DATE: 2003-06-30
     19 <150> PRIOR APPLICATION NUMBER: US 60/481,319
     20 <151> PRIOR FILING DATE: 2003-09-01
     22 <160> NUMBER OF SEQ ID NOS: 30
     24 <170> SOFTWARE: PatentIn version 3.2
     26 <210> SEQ ID NO: 1
     27 <211> LENGTH: 27
     28 <212> TYPE: DNA
     29 <213> ORGANISM: Artificial
     31 <220> FEATURE:
     32 <223> OTHER INFORMATION: Artificial
     34 <400> SEQUENCE: 1
     35 cagcagcagc agcagcagca gcagcag                                  27
     38 <210> SEQ ID NO: 2
     39 <211> LENGTH: 6
     40 <212> TYPE: DNA
     41 <213> ORGANISM: Artificial
     43 <220> FEATURE:
     44 <223> OTHER INFORMATION: Artificial
     46 <400> SEQUENCE: 2
     47 gtcgtc                                                        6
     50 <210> SEQ ID NO: 3
     51 <211> LENGTH: 12
     52 <212> TYPE: DNA
     53 <213> ORGANISM: Artificial
     55 <220> FEATURE:
     56 <223> OTHER INFORMATION: Artificial
     58 <400> SEQUENCE: 3
     59 gtcgtcgtcg tc                                                 12
     62 <210> SEQ ID NO: 4
     63 <211> LENGTH: 15
     64 <212> TYPE: DNA
     65 <213> ORGANISM: Artificial
     67 <220> FEATURE:
```

pp 1-4, 6

Does Not Comply
Corrected Diskette Needed

global error

insufficient response - give source of genetic material (see item 11 on Error Summary Sheet)

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Output Set: **N:\CRF4\01102006\J562134.raw**

68 <223> OTHER INFORMATION: Artificial
70 <400> SEQUENCE: 4
71 gtcgtcgtcg tcgtc 15
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 21
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Artificial
82 <400> SEQUENCE: 5
83 gtcgtcgtcg tcgtcgtcgt c 21
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 27
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Artificial
94 <400> SEQUENCE: 6
95 cggcggcggc ggcggcggcg gcggcgg 27
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 6
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Artificial
106 <400> SEQUENCE: 7
107 gccgcc 6
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 12
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Artificial
118 <400> SEQUENCE: 8
119 gccgccgccg cc 12
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 15
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Artificial
130 <400> SEQUENCE: 9
131 gccgccgccg ccgcc 15
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 21
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Artificial

RAW SEQUENCE LISTING DATE: 01/10/2006
PATENT APPLICATION: **US/10/562,134** TIME: 09:40:07

Input Set : **A:\PCTEP04007090.txt**
Output Set: **N:\CRF4\01102006\J562134.raw**

```
142 <400> SEQUENCE: 10
143 gccgccgccg ccgccgccgc c                                              21
146 <210> SEQ ID NO: 11
147 <211> LENGTH: 20
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Artificial
154 <400> SEQUENCE: 11
155 atggtgcacc tgactcctga                                                 20
158 <210> SEQ ID NO: 12
159 <211> LENGTH: 21
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Artificial
166 <400> SEQUENCE: 12
167 ggagaagtct gccgttactg c                                              21
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 41
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Artificial
178 <400> SEQUENCE: 13
179 gcagtaacgg cagacttctc ctcaggagtc aggtgcacca t                         41
182 <210> SEQ ID NO: 14
183 <211> LENGTH: 41
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Artificial
190 <400> SEQUENCE: 14
191 atggtgcacc tgactcctga ggagaagtct gccgttactg c                         41
194 <210> SEQ ID NO: 15
195 <211> LENGTH: 15
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Artificial
202 <400> SEQUENCE: 15
203 acggcagact tctcc                                                     15
206 <210> SEQ ID NO: 16
207 <211> LENGTH: 36
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Artificial
214 <400> SEQUENCE: 16
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RAW SEQUENCE LISTING DATE: 01/10/2006
PATENT APPLICATION: US/10/562,134 TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

215 cggcggcggc ggcggcggcg gcggcggcgg cggcgg 36
218 <210> SEQ ID NO: 17
219 <211> LENGTH: 30
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Artificial
226 <400> SEQUENCE: 17
227 ctgctgctgc tgctgctgct gctgctgctg 30
230 <210> SEQ ID NO: 18
231 <211> LENGTH: 60
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Artificial
238 <400> SEQUENCE: 18
239 ctgctgctgc tgctgctgct gctgctgctg ctgctgctgc tgctgctgct gctgctgctg 60
242 <210> SEQ ID NO: 19
243 <211> LENGTH: 9
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Artificial
250 <400> SEQUENCE: 19
251 cagcagcag 9
254 <210> SEQ ID NO: 20
255 <211> LENGTH: 59
256 <212> TYPE: DNA
257 <213> ORGANISM: Streptococcus salivarius
260 <220> FEATURE:
261 <221> NAME/KEY: misc_feature
262 <222> LOCATION: (34)..(36)
263 <223> OTHER INFORMATION: n is a, c, g, or t
265 <400> SEQUENCE: 20
W--> 266 taggtgaatt aataagccta gggacttgat tttnnncaag ttacggcgag tgaactggc 59
269 <210> SEQ ID NO: 21
270 <211> LENGTH: 59
271 <212> TYPE: DNA
272 <213> ORGANISM: Streptococcus vestibularis
275 <220> FEATURE:
276 <221> NAME/KEY: misc_feature
277 <222> LOCATION: (34)..(36)
278 <223> OTHER INFORMATION: n is a, c, g, or t
280 <400> SEQUENCE: 21
W--> 281 taggtgaatc aataagccta gggacttgat tttnnncaag ttacggcgag cgaactagc 59
284 <210> SEQ ID NO: 22
285 <211> LENGTH: 59
286 <212> TYPE: DNA
287 <213> ORGANISM: Streptococcus orisratti

OK-good

RAW SEQUENCE LISTING DATE: 01/10/2006
PATENT APPLICATION: **US/10/562,134** TIME: 09:40:07

Input Set : **A:\PCTEP04007090.txt**
Output Set: **N:\CRF4\01102006\J562134.raw**

289 <400> SEQUENCE: 22
290 taggcgaaaa aataagccta ggggggtagt cttttctgcc ctacggcgag taaaatggc 59
293 <210> SEQ ID NO: 23
294 <211> LENGTH: 59
295 <212> TYPE: DNA
296 <213> ORGANISM: Streptococcus canis
299 <220> FEATURE:
300 <221> NAME/KEY: misc_feature
301 <222> LOCATION: (29)..(30)
302 <223> OTHER INFORMATION: n is a, c, g, or t
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (35)..(36)
307 <223> OTHER INFORMATION: n is a, c, g, or t
309 <400> SEQUENCE: 23
W--> 310 taggcgaaca aataagccta gggatgtgnn cttgnncaca ttacggcgga gaaaatggc 59
313 <210> SEQ ID NO: 24
314 <211> LENGTH: 59
315 <212> TYPE: DNA
316 <213> ORGANISM: Streptococcus equi zooepid
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (29)..(30)
322 <223> OTHER INFORMATION: n is a, c, g, or t
324 <220> FEATURE:
325 <221> NAME/KEY: misc_feature
326 <222> LOCATION: (36)..(36)
327 <223> OTHER INFORMATION: n is a, c, g, or t
329 <400> SEQUENCE: 24
W--> 330 taggcgaaca aataagccta gggatgtgnn tttgancaca ttacggcgag tgaaaaggc 59
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 59
335 <212> TYPE: DNA
336 <213> ORGANISM: Streptococcus dysgal equi
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature
341 <222> LOCATION: (29)..(30)
342 <223> OTHER INFORMATION: n is a, c, g, or t
344 <220> FEATURE:
345 <221> NAME/KEY: misc_feature
346 <222> LOCATION: (35)..(36)
347 <223> OTHER INFORMATION: n is a, c, g, or t
349 <400> SEQUENCE: 25
W--> 350 taggcgaaca aataagccta gggatgtgnn cttanntaca ttacggcgaa gaaaatggc 59
353 <210> SEQ ID NO: 26
354 <211> LENGTH: 59
355 <212> TYPE: DNA
356 <213> ORGANISM: Streptococcus parauberis
359 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/10/2006
PATENT APPLICATION: US/10/562,134 TIME: 09:40:08

FYI

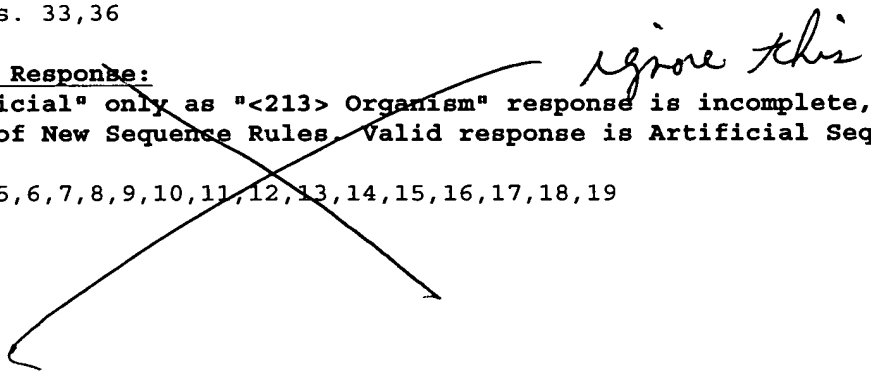
Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; N Pos. 34,35,36
Seq#:21; N Pos. 34,35,36
Seq#:23; N Pos. 29,30,35,36
Seq#:24; N Pos. 29,30,36
Seq#:25; N Pos. 29,30,35,36
Seq#:26; N Pos. 28,29,30,31
Seq#:27; N Pos. 29,30
Seq#:28; N Pos. 29,30,35,36
Seq#:29; N Pos. 29,30,35,36
Seq#:30; N Pos. 33,36

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19



VERIFICATION SUMMARY DATE: 01/10/2006
PATENT APPLICATION: **US/10/562,134** TIME: 09:40:08

Input Set : **A:\PCTEP04007090.txt**
Output Set: **N:\CRF4\01102006\J562134.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0